Amendments to the Specification:

Please replace paragraph at page 6, lines 15-24 with the following amended paragraph:

Figure 3 shows the first drive mechanism 50 for varying the position of the combined optical signal on the specimen 90. The first or X scan mechanism preferably employs a galvanometric torque motor 54 to rotate a sector-shaped cam 56 over an angle between +40 degrees, and -40 degrees. The circular portion of the cam 56 is connected to the carriage 58 via a set of roll-up, roll-off thin, high-strength steel wires 66A-B. The scanning objective lens 52 is attached to the ~~carriage 54~~ carriage 58. The radius of the cam 56 is such that its degree of rotation will cause the carriage 58 to travel a linear distance along a rail 60 commensurate with the length of the X scan pattern of the objective lens 52.

Please add the following new subheading and paragraph immediately following the title on page 1:

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a 371 of PCT Application No. PCT/US99/16412, filed July 20, 1999, which claims priority to U.S. Patent Application No. 60/093,882, filed July 23, 1998.